

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1 CONTRACT ID CODE <b>J</b>		PAGE OF PAGES <b>1   2</b>	
2 AMENDMENT/MODIFICATION NO <b>0001</b>		3 EFFECTIVE DATE <b>13-Sep-2004</b>		4 REQUISITION/PURCHASE REQ NO <b>W81EU6-4211-8825</b>		5 PROJECT NO (If applicable) <b>E Pierhead Repair, C</b>	
6 ISSUED BY  DEPARTMENT OF THE ARMY ATTN MOIRA RESTALL USACE BUFFALO 1776 NIAGARA STREET BUFFALO NY 14207-3199		CODE <b>W912P4</b>		7 ADMINISTERED BY (If other than item 6)  <b>See Item 6</b>			
8 NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO <b>W912P4-04-B-0012</b>			
				<input checked="" type="checkbox"/> 9B. DATED (SEE ITEM 11) <b>13-Sep-2004</b>			
				10A. MOD. OF CONTRACT/ORDER NO			
				10B. DATED (SEE ITEM 13)			
CODE		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
<b>13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Pages 00010-4 and 00010-5 are DELETED in their entirety and the attached Pages 00010-4 and 00010-5 are INSERTED in lieu thereof.  Section 00800 Table of Contents, ADD paragraph 30 entitled "Identification of Government-Furnished Property"  Section 00800, page 30, ADD the following paragraph:  "30 IDENTIFICATION OF GOVERNMENT-FURNISHED PROPERTY  a. The Government will furnish to the Contractor the following property to be incorporated or installed in the work, or used in its performance. Such property shall be installed or incorporated into the work at the expense of the Contractor, unless otherwise indicated herein. All items not used in the rehabilitation shall be returned to the Government in the same conditions and location they were issued. The Contractor shall verify the quantity and condition of such Government-Furnished property when made available to him acknowledge							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				TEL: _____ EMAIL: _____			
15B. CONTRACTOR/OFFEROR  _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA  BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED  <b>14-Sep-2004</b>	

EXCEPTION TO SF 30  
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)  
Prescribed by GSA  
FAR (48 CFR) 53.243

receipt thereof in writing to the Contracting Officer, and in case of damage to shortage or such property, within 24-hours report in writing such damage or shortage to the Contracting Officer. (See Section 00700, Contract Clause entitled "GOVERNMENT PROPERTY – FIXED PRICE CONTRACTS").

The following property will be made available at the U.S. Pier adjacent to the U.S. Reservation, Corps of Engineer, Cleveland Area Office at 1035 E. Ninth Street, Cleveland, OH:

QUANTITY	ITEMS
96 sheets	60' long – CZ 141 Steel Sheet Piling "

Section 02464, DELETE in its entirety and INSERT the attached Section 02464 in lieu thereof.

Section 00100, page 4, paragraph 14, ADD No. 19 entitled General Decision Number IL030018 02/27/2004

The attached General Decision Number IL030018 should be ADDED to the attachments as No. 19.

The Pre-Bid Conference was held on Thursday, September 9, 2004. The following are the attendees and the questions and answers from that meeting.

#### LIST OF ATTENDEES

Richard Reffner	CoE	(716) 879-4250
Ted Valerio	CoE	(716) 879-4266
Paul Polanski	CoE	(716) 879-4236
Ron Moll	CoE	(716) 879-4411
Dustin Tellinghuisen	CoE	(716) 879-4248
Matt Snyder	CoE	(716) 685-1206
Mike Schmeltzer	Durocher/Kokosing	(740) 627-1892
Ted Wright	Huffman Group	
Rich Quundt	Huffman Group	(740) 951-2770
Rick Nerone	Nerone & Sons	(216) 662-2235
Ed Petrowski	Faust Corp.	(313) 381-0101
Tom Morrish	Ryba Marine dba Morrish Wallace Const. Inc.	(231) 627-4333
Kurt Luedtke	Luedtke Engineering Co.	(231) 352-9631, Ext. 14
Vito Hollenbeck	Luedtke Engineering Co.	(734) 502-3833
Kevin Hollenbeck	Luedtke Engineering Co.	(734) 502-3833
Al Johnson	J-Way	(440) 934-1020
Dave Finger	Geo. Gradel Co.	(419) 691-7123

#### QUESTIONS AND ANSWERS:

1. QUESTION: Is the Real Estate available for this project?  
ANSWER: Yes. See Section 00100, paragraph 22.

2. QUESTION: Why is this acquisition not a set-aside for small business?

ANSWER: The magnitude of the work is not conducive to a small business set-aside.

3. QUESTION: When is the Bid Opening Date? Will there be enough time to do any work this year?

ANSWER: The bid opening is being extended to 9/23/04 at the same time. Enough funding will be issued for FY 04 for the Contractor to do some work and the rest of the funding will come in FY 05 beginning in October.

4. QUESTION: Is the Government-Furnished sheeting enough to complete the project?

ANSWER: In the Government-Furnished Property clause inserted by means of this Amendment, there are 96 sheets of steel sheet piling being made available by the Government.

5. QUESTION: How will the new tie rods be installed while the old ones are still in place.

ANSWER : The new tie rods will be installed at different locations so the old ones won't interfere with the installation of the new ones.

6. QUESTION: Is the size of the armor stone specified on the drawing or in the specifications?

ANSWER: The size of the armor stone is specified in the specifications.

7. QUESTION: Is the thickness of the stone layers within the breakwater shown on the drawings or in the specifications.

ANSWER: The thickness of the stone layers within the breakwater are indicated on the drawing and in the specifications.

NOTE: THE BID OPENING IS EXTENDED FROM 9/20/04 TO 9/23/04 AT THE SAME TIME.

SOLICITATION, OFFER, AND AWARD (SF1442) AND BIDDING SCHEDULE  
SECTION 00010

EAST PIERHEAD REPAIR  
CLEVELAND HARBOR, OHIO

<u>Item No.</u>	<u>Description</u>	<u>Estimated Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Estimated Amount</u>
1.	Mobilization and Demobilization		LS	\$ _____	
2.	As-Built Drawings		LS	\$ _____	
3.	Removals		LS	\$ _____	
4.	Removal of Obstructions - 5' to 20' Depth	200	CY	\$ _____	\$ _____
5.	Furnish and Install Steel Sheet Piling, Type "A"	2,335	LF	\$ _____	\$ _____
6.	Furnish and Install Steel Sheet Piling, Type "B"	130	LF	\$ _____	\$ _____
7.	Furnish and Install Steel Sheet Piling, Type "C"	130	LF	\$ _____	\$ _____
8.	Furnish and Install Steel Sheet Piling, Type "D"	15	LF	\$ _____	\$ _____
9.	Furnish and Install Steel Sheet Piling, Type "E"	15	LF	\$ _____	\$ _____
10.	Install Government Furnished Steel Sheet Piling, Type "A"	5,760	LF	\$ _____	\$ _____
11.	Steel Sheet Piling - Fabricated Section, Type "1"	15	LF	\$ _____	\$ _____
12.	Steel Sheet Piling - Fabricated Section, Type "2"	15	LF	\$ _____	\$ _____
13.	Cut-Offs	15	EA	\$ _____	\$ _____
14.	Splices	10	EA	\$ _____	\$ _____
15.	Granular Fill Material	1,200	TN	\$ _____	\$ _____
16.	Select Fill Material	500	TN	\$ _____	\$ _____

Amendment No. 0001  
dated 9/13/04

<u>Item No.</u>	<u>Description</u>	<u>Estimated Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Estimated Amount</u>
17.	Deformed Steel Bars for Concrete Reinforcement	10,400	LB	\$_____	\$_____
18.	Dowels	115	EA	\$_____	\$_____
19.	Reinforced Concrete Pierhead Cap	200	CY	\$_____	\$_____
20.	Fabric Formed Concrete	45	CY	\$_____	\$_____
21.	Tremie Concrete	950	CY	\$_____	\$_____
22.	Coring	10	LF	\$_____	\$_____
23.	Wales	16,500	LB	\$_____	\$_____
24.	Tie Rods - 68'-72' Long	12	EA	\$_____	\$_____
25.	Galvanized Steel Pipe Railing		LS		\$_____
26.	Fabricated Steel Cleats	2	EA	\$_____	\$_____
27.	Furnish and Install "No Trespassing" Sign	1	EA	\$_____	\$_____
					_____
TOTAL ESTIMATED AMOUNT				\$_____	

END OF SECTION 00010

00010-5

Amendment No. 0001  
dated 9/13/04

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SECTION 02464  
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## SECTION 02464

## METAL SHEET PILING

## PART 1 GENERAL

## 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

## ASTM INTERNATIONAL (ASTM)

ASTM A 6/A 6M	(2002b) General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling
ASTM A 572/A 572M	(2001) High-Strength Low-Alloy Columbium-Vanadium Structural Steel

## 1.2 UNIT PRICES

## 1.2.1 Furnish and Install Steel Sheet Piling, Types "A", "B", "C", "D" &amp; "E"

## 1.2.1.1 Payment

Payment for sheet piling quantities will be made at the applicable contract price per linear foot for furnished and installed sheet piling. Payment shall cover all cost of furnishing, handling, storing and installing piling including placing, driving, cutting holes, attaching cover plates (if applicable) and other materials and work incident thereto.

## 1.2.1.2 Measurement

The length of sheet piling installed, or removed, will be measured to the nearest tenth of a linear foot. For installed pilings directed to be cut off before reaching the penetration depth shown, the portion cut off will be measured for payment as the difference between the total length of piling shown on the plans for that location and the length of piling installed below the point of cut-off.

## 1.2.1.3 Unit of Measure

Unit of measure: linear foot.



## 1.2.2 Install Government Furnished Steel Sheet Piling, Type "A"

## 1.2.2.1 Payment

Payment for sheet piling quantities will be made at the applicable contract price per linear foot for installed sheet piling. Payment shall cover all costs of delivery, handling, storing and installing piling including placing, driving, cutting holes and other materials and work incident thereto.

## 1.2.2.2 Measurement

The length of sheet piling installed, or removed, will be measured to the nearest tenth of a linear foot. For installed pilings directed to be cut off before reaching the penetration depth shown, the portion cut off will be measured for payment as the difference between the total length of piling shown on the plans for that location and the length of piling installed below the point of cut-off.

## 1.2.2.3 Unit of Measure

Unit of measure: linear foot.

## 1.2.3 Steel Sheet Piling - Fabricated Sections, Types "1" &amp; "2"

## 1.2.3.1 Payment

Payment for sheet piling quantities will be made at the applicable contract price per linear foot for furnished and installed fabricated sheet piling. Payment shall cover all cost of furnishing, handling, storing and installing piling including placing, driving, cutting holes and other materials and work incident thereto.

## 1.2.3.2 Measurement

The length of fabricated sheet piling installed, or removed, will be measured to the nearest tenth of a linear foot. For installed pilings directed to be cut off before reaching the penetration depth shown, the portion cut off will be measured for payment as the difference between the total length of piling shown on the plans for that location and the length of piling installed below the point of cut-off.

## 1.2.3.3 Unit of Measure

Unit of measure: linear foot.

## 1.2.4 Cut-Offs

## 1.2.4.1 Payment

When pilings which have not been driven to penetration depths shown are directed to be cut off except for cut-offs due to excessive battering, a lump sum payment will be made for cutting off each piling.

## 1.2.4.2 Measurement

An additional sum will be paid for each linear foot of the portion cut off and measured for payment. For installed pilings directed to be cut off before reaching the penetration depth shown, the portion cut off will be measured for payment as the difference between the total length of piling shown on the plans for that location and the length of piling installed below the point of cut-off at the rate of 50 percent of the applicable contract unit price.

## 1.2.4.3 Unit of Measure

Unit of measure: each.

## 1.2.5 Splices

## 1.2.5.1 Payment

Payment will be made for each piling spliced at the direction of the Contracting Officer to drive the piling to a depth greater than shown and extend it up to the required top elevation. An additional sum will be paid for each linear foot of the piling extension at the applicable contract unit price.

## 1.2.5.2 Measurement

Splices will be measured for payment for each piling spliced.

## 1.2.5.3 Unit of Measure

Unit of measure: each.

## 1.2.6 Pulled Pilings

## 1.2.6.1 Payment

The Contractor furnished pilings which have been installed and are pulled at the direction of the Contracting Officer and found to be in good condition will be paid for at the applicable contract unit price for furnishing and installing the pilings in their initial position plus an equal amount for the cost of pulling.

## 1.2.6.2 Measurement

When such pulled pilings are redriven, an additional amount equal to 50 percent of the applicable contract unit price for furnishing and driving the pilings will be paid for redriving the pilings. This additional price constitutes payment for redriving only. The cost of furnishing, initial driving, and pulling the pilings is to be paid for as specified.

a. When pilings are pulled and found to be damaged no payment will be made for the initial furnishing and driving or for the pulling of such pilings. Pilings replacing damaged pilings will be paid for at the applicable contract unit prices.

## 1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330, "SUBMITTAL PROCEDURES":

## SD-01, Preconstruction Submittals

## Pile Driving Work Plan

The Contractor shall submit a pile driving plan to the Contracting Officer for approval prior to commencing any driving. The plan shall show the location(s) where pile driving shall start and the direction in which piles shall be driven from that location(s). Any additional fabricated piles required due to a pile driving plan other than the ones assumed on the drawings shall be furnished and installed at the Contractor's expense. Furthermore, if fabricated piles require dimensions different than shown on the contract drawings, they shall be provided at no charge in the contract unit price per linear foot for the various types.

## SD-02, Shop Drawings

## Metal Sheet Piling; G,TSD

Detail drawings for sheet piling, including fabricated sections, shall show complete piling dimensions and details, driving sequence and location of each piling. Detail drawings shall include details and dimensions of templates and other temporary guide structures for installing piling. Detail drawings shall provide details of the method of handling piling to prevent permanent deflection, distortion, or damage to piling interlocks.

## Driving

Records of the sheet piling driving operations shall be submitted after driving is completed. These records shall provide a system of identification which shows the disposition of approved piling in the work, driving equipment performance data, piling penetration rate data, piling dimensions and top and bottom elevations of installed piling.

## SD-03, Product Data

## Pile Driving Equipment; G,AOF

Complete descriptions of sheet piling driving equipment including hammers, extractors, protection caps and other installation appurtenances shall be submitted for approval prior to commencement of work.

## SD-05, Design Data

## Pile Properties, Layouts &amp; Calculations; G,TSD

If the Contractor elects to provide another type of metal sheet piling, either hot-rolled or cold-formed, instead of the cold-formed sections shown on the drawings for design and layout, the Contractor shall submit material and section properties which demonstrate that the alternative metal sheet piling type will provide a sheet pile wall of equivalent strength and stiffness. The Contractor shall provide tie rod spacing and layouts appropriate for the selected sections. Calculations for tie rods, wales, and appurtenances shall be provided by the Contractor if the proposed tie rod spacing for the selected sections is different from that shown on the drawings.

## SD-06, Test Reports

## Materials Tests

Certified materials tests reports showing that sheet piling and appurtenant metal materials meet the specified requirements shall be submitted for each shipment and identified with specific lots prior to installing materials. Material test reports shall meet the requirements of ASTM A 6/A 6M.

## 1.4 DELIVERY, STORAGE AND HANDLING

## 1.4.1 Contractor Furnished Sheet Piling

Materials delivered to the site shall be new and undamaged and shall be accompanied by certified test reports. The manufacturer's logo and mill identification mark shall be provided on the sheet piling as required by the referenced specifications. Sheet piling shall be stored and handled in the manner recommended by the manufacturer to prevent permanent deflection, distortion or damage to the interlocks. Storage of sheet piling should also facilitate required inspection activities. Sheet piling over 75 feet in length shall be handled using a minimum of two pickup points.

## 1.4.2 Government Furnished Sheet Piling

Furnished sheet pilings, as listed in Section 00800, "SPECIAL CONTRACT REQUIREMENTS," are located on the U.S. Pier adjacent to the U.S. Reservation, Corps of Engineers Cleveland Area Office at the foot of East 9th Street for pick-up and delivery by the Contractor. Sheet piling shall be stored and handled in a manner to prevent permanent deflection, distortion or damage to the interlocks. Storage of piling shall facilitate required inspection activities.

## 1.5 SUBSURFACE DATA

Subsurface soil data logs are listed in Section 00100 as an attachment. Additional information on subsurface material conditions is available for examination through the Coastal/Geotechnical Section, Department of the Army, U.S. Army Engineer District, Buffalo, 1776 Niagara Street, Buffalo, New York 14207-3199.

## PART 2 PRODUCTS

## 2.1 METAL SHEET PILING

Metal sheet piling shall be of the types specified herein and shown on the drawings. Piling shall have a nominal web thickness not less than that shown in table below. The interlocks of sheet piling shall be free-sliding, provide a swing angle suitable for the intended installation but not less than 5 degrees when interlocked, and maintain continuous interlocking when installed. Sheet piling, including special fabricated sections, shall be full-length sections of the dimensions shown. Fabricated sections shall conform to the requirements of the piling manufacturer's recommendations for fabricated sections. Sheet piling shall be provided with standard pulling holes. Metalwork fabrication for sheet piling shall be as specified in Section 05501, "METALWORK FABRICATION AND MISCELLANEOUS PROVISIONS." Piling shall meet the required properties listed in the following table:

<u>PROPERTIES</u>				
<u>Type</u>	<u>Minimum Nominal Thickness (In.)</u>	<u>Min. Section Modulus Per Lin. Ft. of Wall (In.<sup>3</sup>)</u>	<u>Min. Moment of Inertia Per Lin. Ft. of Wall (In.<sup>4</sup>)</u>	<u>Material Reference</u>
A	0.413	39.06	261.4	ASTM A 572/A 572M Grade 50
B (B2 Corner Pile)	0.413	39.06	261.4	ASTM A 572/A 572M Grade 50
C (B3 Corner Pile)	0.413	39.06	261.4	ASTM A 572/A 572M Grade 50
D (A Corner Pile)	0.375	34.82	232.8	ASTM A 572/A 572M Grade 50
E (B Corner Pile)	0.375	34.82	232.8	ASTM A 572/A 572M Grade 50

## 2.1.1 Alternative Steel Sheet Pile Sections

This project was designed and the layout was developed utilizing type CZ141 cold-formed steel sheet piling. Detailed and designated on the drawings is this type of cold-formed sheet pile section. Type CZ141 piling meets the requirements of Types "A", "B" and "C" listed in table above. At the Contractor's option, the Contractor may provide alternative steel sheet piling sections, either hot-rolled or cold-formed instead of the sections shown on the drawings and indicated in the specifications, provided the design of required sheet pile wall fulfills the requirements of SD-05,

Design Data; Pile Properties, Layouts & Calculations, and is approved by the Contracting Officer. Design and complete layout for alternative sheet pile shall be performed by a Registered Structural Engineer and is the complete responsibility of the Contractor. Construction of the steel sheet pile walls with the selected alternative section, including all related adjustments to the structure components to adapt them to the selected sheet piling, shall be provided at no additional cost to the Government.

## 2.2 APPURTENANT METAL MATERIALS

Metal plates, bars, shapes, bolts, nuts, rivets and other appurtenant fabrication and installation materials shall conform to manufacturer's standards and to the requirements specified in the respective sheet piling standards and in Section 05502, "METAL MATERIALS, STANDARD ARTICLES, AND SHOP FABRICATED ITEMS."

## 2.3 TESTS, INSPECTIONS, AND VERIFICATIONS

Requirements for material tests, workmanship and other measures for quality assurance shall be as specified and in Section 05501, "METALWORK FABRICATION AND MISCELLANEOUS PROVISIONS."

### 2.3.1 Materials Tests

Materials tests shall conform to the following requirements. Sheet piling and appurtenant materials shall be tested and certified by the manufacturer to meet the specified chemical, mechanical and section property requirements prior to delivery to the site. Testing of sheet piling for mechanical properties shall be performed after the completion of all rolling and forming operations. Testing of sheet piling shall meet the requirements of ASTM A 6/A 6M.

## PART 3 EXECUTION

### 3.1 PLACEMENT OF GOVERNMENT FURNISHED PILING

Government furnished piles shall be installed by the Contractor to construct the south and east walls shown on the drawings. The remaining number of Government supplied piles shall be split evenly between the north and west side walls for use nearest the northeast and southwest corners of the project. Final tip elevation of the piles shall be 529.0 feet. The handling holes in the sheet piles may be left in the finished wall. The Contractor will not be required to cut-off piles to remove the handling holes.

### 3.2 INSTALLATION

#### 3.2.1 Pile Driving Equipment

Pile driving equipment shall conform to the following requirements.

##### 3.2.1.1 Driving Hammers

Hammers shall be steam, air, or diesel drop, single-acting, double-acting, differential-acting, or vibratory type. The driving energy of the hammers shall be as recommended by the manufacturer for the piling weights and subsurface materials to be encountered.

### 3.2.2 Placing and Driving

#### 3.2.2.1 Placing

Any excavation and temporary removal of stone required within the area where sheet pilings are to be installed shall be completed prior to placing sheet pilings. Pilings shall be carefully located as shown. Pilings shall be placed plumb with out-of-plumbness not exceeding 1/8 inch per foot of length and true to line. Temporary wales, templates, or guide structures shall be provided to insure that the pilings are placed and driven to the correct alignment. At least two templates shall be used in placing each piling and the maximum spacing of templates shall not exceed 20 feet. Pilings properly placed and driven shall be interlocked throughout their length with adjacent pilings to form a continuous diaphragm throughout the length or run of piling wall.

#### 3.2.2.2 Driving

Prior to driving pilings in water a horizontal line shall be painted on both sides of each piling at a fixed distance from the bottom so that it shall be visible above the water line after installation. This line shall indicate the profile of the bottom elevation of installed pilings and potential problem areas can be identified by abrupt changes in its elevation. Pilings shall be driven with the proper size hammer and by approved methods so as not to subject the pilings to damage and to ensure proper interlocking throughout their lengths. Driving hammers shall be maintained in proper alignment during driving operations by use of leads or guides attached to the hammer. Caution shall be taken in the sustained use of vibratory hammers when a hard driving condition is encountered to avoid interlock-melt or damages. The use of vibratory hammers should be discontinued and impact hammers employed when the penetration rate due to vibratory loading is one foot or less per minute. A protecting cap shall be employed in driving when using impact hammers to prevent damage to the tops of pilings. Pilings damaged during driving or driven out of interlock shall be removed and replaced at the Contractor's expense. Pilings shall be driven without the aid of a water jet. Adequate precautions shall be taken to insure that pilings are driven plumb. If, at any time, the forward or leading edge of the piling wall is found to be out-of-plumb in the plane of the wall the piling being driven shall be driven to the required depth and tapered pilings shall be provided and driven to interlock with the out-of-plumb leading edge or other approved corrective measures shall be taken to insure the plumbness of succeeding pilings. The maximum permissible taper for any tapered piling shall be 1/8 inch per foot of length. The horizontal alignment of the metal sheet pile wall shall be within two (2) inches of the required location after completion of driving/placing and after assembly and attachment to wales. Pilings in each run or continuous length of piling wall shall be driven alternately in increments of depth to the required depth or elevation. No piling shall be driven to a lower elevation than those behind it in the same run except when the pilings behind it cannot be driven deeper. If the piling next to the one being driven tends to follow below final elevation, it may be pinned to the next adjacent piling. If obstructions restrict driving a piling to the specified penetration the obstructions shall be removed or penetrated with a chisel beam. If the Contractor demonstrates that removal

or penetration is impractical the Contractor shall make changes in the design alignment of the piling structure as directed to insure the adequacy and stability of the structure. Pilings shall be driven to depths shown and shall extend up to the elevation indicated for the top of pilings. A tolerance of one-half (1/2) inch above the indicated top elevation will be permitted. Pilings shall not be driven within 100 feet of concrete less than 7 days old.

### 3.2.3 Cutting-Off and Splicing

Pilings driven to refusal (hard driving in excess of 10 blows per inch with an impact hammer and pile penetration rate of less than one (1) foot per minute for a period of 15 minutes for vibratory hammers) or to the point where additional penetration cannot be attained and are extending above the required top elevation in excess of the specified tolerance shall be cut off to the required elevation. Pilings driven below the required top elevation, with no direction by the Contracting Officer, and pilings damaged by driving and cut off to permit further driving shall be extended as required to reach the top elevation by splicing when directed at no additional cost to the Government. Pilings adjoining spliced pilings shall be full length unless otherwise approved. Splicing of pilings shall be as indicated. Ends of pilings to be spliced shall be squared before splicing to eliminate dips or camber. Pilings shall be spliced together with concentric alignment of the interlocks so that there are no discontinuities, dips or camber at the abutting interlocks. Spliced pilings shall be free sliding and able to obtain the maximum swing with contiguous pilings. The tops of pilings excessively battered during driving shall be trimmed when directed at no cost to the Government. Piling cut-offs shall become the property of the Contractor and shall be removed from the site. The Contractor shall cut holes in pilings for bolts, rods, drains or utilities as shown or as directed. All cutting shall be done in a neat and workmanlike manner. A straight edge shall be used in cuts made by burning to avoid abrupt nicks. Bolt holes in steel piling shall be drilled or may be burned and reamed by approved methods which will not damage the surrounding metal. Holes other than bolt holes shall be reasonably smooth and the proper size for rods and other items to be inserted.

### 3.2.4 Inspection of Driven Piling

The Contractor shall inspect the interlocked joints of driven pilings extending above ground. Pilings found to be out of interlock shall be removed and replaced at the Contractor's expense.

### 3.2.5 Pulling and Redriving

In the pulling and redriving of piles, the Contractor, if directed, shall pull selected pilings after driving to determine the condition of the underground portions of pilings. Any piling so pulled and found to be damaged to the extent that its usefulness in the structure is impaired shall be removed and replaced at the Contractor's expense. Pilings pulled and found to be in satisfactory condition shall be redriven when directed.



### 3.3 QUANTITIES

The estimated quantities of sheet piling listed in the unit price schedule of the contract as to be furnished by the Contractor are given for bidding purposes only. Sheet piling quantities for payment shall consist of the linear feet of piling acceptably installed or removed. Installed quantities shall consist of all piling, including fabricated sections, driven or installed between the required top and bottom elevations of pilings plus any additions thereto resulting from changes in design or alignment as provided in paragraph "Driving." Removed quantities shall consist of the lengths of piling pulled from below the ground level.

-- End of Section --

**General Decision Number: IL030018 02/27/2004**

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General Decision Number: **IL030018** 02/27/2004

Superseded General Decision Number: IL020018

State: Illinois

Construction Types: Heavy (Dredging, and Marine)

Counties: Illinois Statewide.

MECHANICAL DREDGING (CLAMSHELL, DRAGLINE, AND BACKHOE) AND  
MARINE CONSTRUCTION):

ILLINOIS, INDIANA, MICHIGAN, MINNESOTA, NEW YORK, OHIO,  
PENNSYLVANIA AND WISCONSIN DREDGING AND MARINE CONSTRUCTION  
Dredging and Marine Construction Projects: floating/land  
equipment engaged in clamshell, backhoe and dragline dredging,  
marine construction, bridges, salvage operations and cranes,  
loaders, dozers, or other equipment used for disposal of dredge  
spoils or marine construction materials on land at the slip or  
dock, at the project site, where the above material/spoils is  
being handled, and all equipment utilized on  
breakwall/breakwater structures on the Great Lakes, Islands  
therein, their connecting and tributary waters, including the  
Illinois Waterway to the Lock at Lockport, Illinois, the New  
York State Barge Canal System between Tonawanda, New York and  
Waterford, New York and Oswego, New York, the Duluth-Superior  
area to the Fond du Lac Bridge Crossing (Minnesota State  
Highway 23) on the St. Louis River and on the St. Lawrence  
River eastward to the International Boundary near St. Regis,  
New York.

Modification Number                      Publication Date

0    06/13/2003

1    02/27/2004

\* SUIL2003-001 01/01/2004

MECHANICAL DREDGING (CLAMSHELL, DRAGLINE, AND BACKHOE) AND  
MARINE CONSTRUCTION):

	Rates	Fringes
Dredging:		
Fireman, Oiler,		
Deckhand, & Scowman		
(with dipper, hydraulic		
or other floating		
equipment engaged in		
hydraulic and dipper		
dredging operations)		
Pipeline men (both		
afloat & ashore		
including loading,		
unloading, maintaining,		
and handling pipelines		
for hydraulic dredges		
and sandboats Rangeman,		
Tankerman, Sweepman and		
service Truck Driver.....	\$ 22.51	7.61+a+b
Lead Deckhand.....	\$ 29.68	7.61+a+b
Hydraulic Dredging		

LAUNCH OPERATOR -		
Vessel 800 Horse- Power		
Or Less.....	\$ 25.15	7.61+a+b
TUG ENGINEER.....	\$ 26.49	7.61+a+b
TUG OPERATOR - Vessel		
Over 800 Horse-Power.....	\$ 26.49	7.61+a+b
TUG WORKERS: Fireman,		
Lineman, Oiler,		
Deckhand, Tankerman.		
Scowman, (on/or with		
tugboats, launches, or		
other self-propelled		
boats).....	\$ 22.51	7.61+a+b
Mechanic		
FLOATING EQUIPMENT:		
Illinois		
Class I.....	\$ 40.50	12.00+b&c
Class II.....	\$ 39.00	12.00+b&c
Class III.....	\$ 34.70	12.00+b&c
Class IV.....	\$ 28.85	12.00+b&c
FLOATING EQUIPMENT:		
Indiana		
Class I.....	\$ 35.75	11.95+b&c
Class II.....	\$ 34.25	11.95+b&c
Class III.....	\$ 30.45	11.95+b&c
Class IV.....	\$ 25.35	11.95+b&c
FLOATING EQUIPMENT:		
Michigan		
Class I.....	\$ 27.50	15.23+b&c
Class II.....	\$ 26.00	15.23+b&c
Class III.....	\$ 23.15	15.23+b&c
Class IV.....	\$ 19.25	15.23+b&c
FLOATING EQUIPMENT:		
Minnesota		
Class I.....	\$ 32.55	9.10+b&c
Class II.....	\$ 31.05	9.10+b&c
Class III.....	\$ 27.65	9.10+b&c
Class IV.....	\$ 23.00	9.10+b&c
FLOATING EQUIPMENT:		
New York: (Cattaraugus,		
Chautauga, Erie and		
Orleans Counties)		
Class I.....	\$ 35.00	15.96+b&c
Class II.....	\$ 33.50	15.96+b&c
Class III.....	\$ 29.80	15.96+b&c
Class IV.....	\$ 24.80	15.96+b&c
FLOATING EQUIPMENT:		
New York: (Cayuga,		
Jefferson, Oswego, and		
St. Lawrence Counties)		
Class I.....	\$ 29.50	13.10+b&c
Class II.....	\$ 28.00	13.10+b&c
Class III.....	\$ 24.92	13.10+b&c
Class IV.....	\$ 20.72	13.10+b&c
FLOATING EQUIPMENT:		
New York: (Monroe and		
Wayne Counties and the		

City of Rochester)		
Class I.....	\$ 27.50	9.00+b&c
Class II.....	\$ 26.00	9.00+b&c
Class III.....	\$ 23.15	9.00+b&c
Class IV.....	\$ 19.25	9.00+b&c

FLOATING EQUIPMENT:

New York: (Niagara)

Class I.....	\$ 32.08	14.50+b&c
Class II.....	\$ 30.58	14.50+b&c
Class III.....	\$ 30.84	14.50+b&c
Class IV.....	\$ 22.90	14.50+b&c

FLOATING EQUIPMENT:

Ohio: (Ashtabula,  
Cuyahoga, Erie, Lake,  
and Lorain Counties)

Class I.....	\$ 32.99	7.60+b&c
Class II.....	\$ 31.49	7.60+b&c
Class III.....	\$ 28.02	7.60+b&c
Class IV.....	\$ 23.30	7.60+b&c

FLOATING EQUIPMENT:

Ohio: (Lucas, Henry,  
Ottawa, Wood and  
Sandusky Counties)

Class I.....	\$ 31.27	7.60+b&c
Class II.....	\$ 29.77	7.60+b&c
Class III.....	\$ 26.50	7.60+b&c
Class IV.....	\$ 22.30	7.60+b&c

FLOATING EQUIPMENT:

Pennsylvania: (Erie  
County):

Class I.....	\$ 24.80	10.23+b&c
Class II.....	\$ 23.30	10.23+b&c
Class III.....	\$ 20.74	10.23+b&c
Class IV.....	\$ 17.24	10.23+b&c

FLOATING EQUIPMENT:

Wisconsin: Includes all  
marine/floating type  
work on projects in the  
Superior/Duluth Harbor,  
Lake Superior.

Class I.....	\$ 32.00	12.90+b&c
Class II.....	\$ 30.50	12.90+b&c
Class III.....	\$ 27.15	12.90+b&c
Class IV.....	\$ 22.57	12.90+b&c

PAID HOLIDAYS (WHERE APPLICABLE):

- A- NEW YEAR'S DAY
- B- MEMORIAL DAY
- C- INDEPENDENCE DAY
- D- LABOR DAY
- E- THANKSGIVING DAY
- F- CHRISTMAS DAY
- G- PRESIDENT'S DAY
- H- VETERANS' DAY

FOOTNOTES:

- a. \$30.10 per day per employee for medical
- b. Eight paid holidays: A thru H
- c. Hazardous/Toxic Waste Material:

\*Level A \$2.50 per hour

\*Level B 2.00 per hour

\*Level C 1.00 per hour

\*Level D 0.50 per hour

Such wages shall be above the classifications of work listed under mechanical dredging and Marine construction of this general wage decision. \*Working with Hazardous Waste at this level as defined by the U. S. Environmental Protection Agency.

#### CLASSIFICATION DESCRIPTIONS

Class I - Master Mechanic - assist and direct

Class II, Class III, and Class IV, diver/wet tender, engineer (hydraulic dredge)

Class II - Crane/Backhoe Operator and Mechanic/Welder, assistant engineer (hydraulic dredge), leverman (hydraulic dredge), diver/tender

Class III - Deck Equipment Operator (Machineryman)

Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 pounds or more), ug/launch operator, Loader/dozer and like equipment on Barge, breakwater wall, slip/dock, Scow, Deck Machinery, etc.

Class IV - Deck Equipment Operator (Machineryman/Fireman) (Four equipment units or more) and Crane Maintenance 50 ton capacity and under or Backhoe weighing 115,000 pounds or less, assistant tug operator.

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

#### ----- WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

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